

Sustainability Storybook

GI Endoscopy



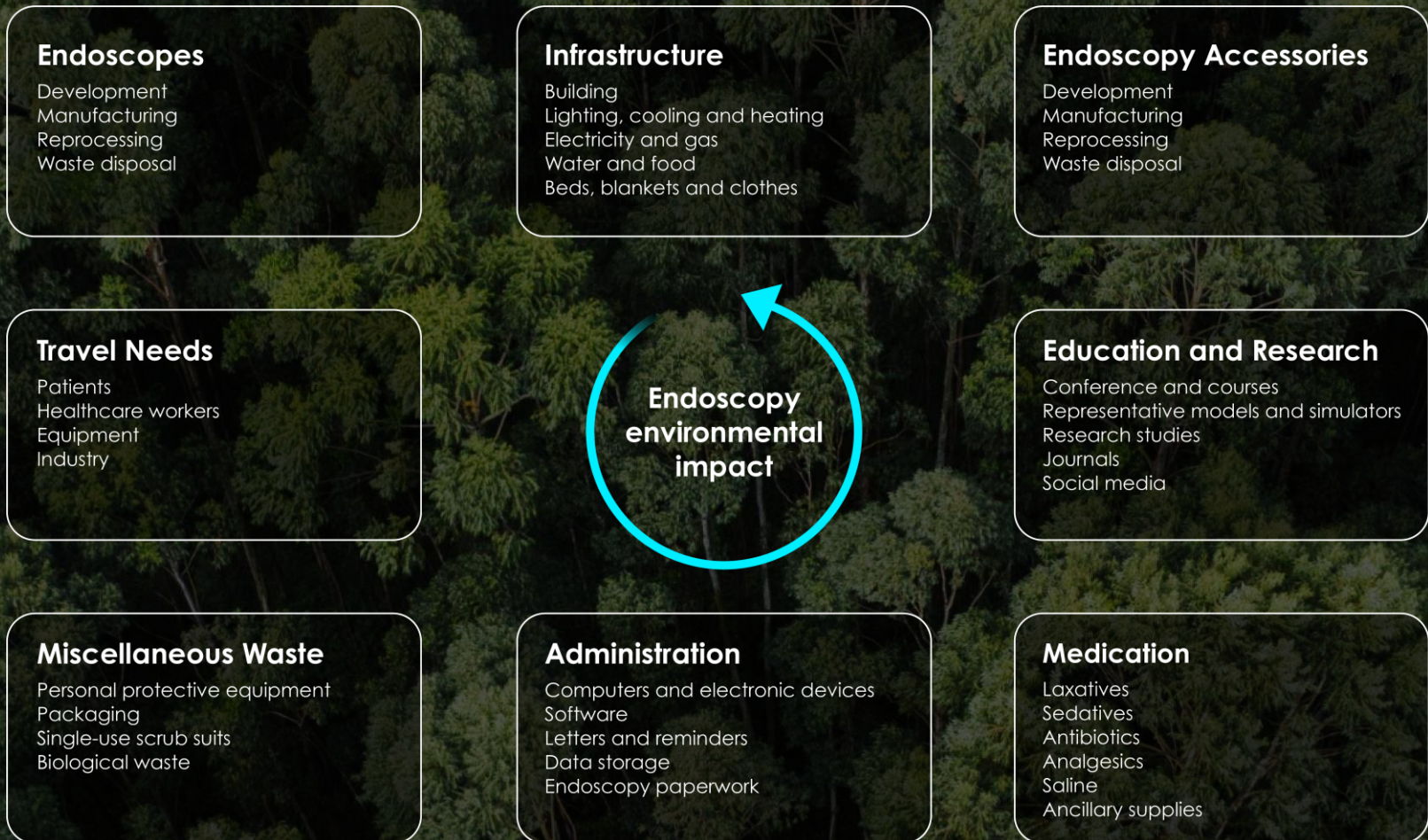
As a leading provider of GI Endoscopy devices, Boston Scientific is taking action to protect the environment



Our commitment to improving patient health comes with a responsibility to protect the planet we all share

As we work to solve healthcare's toughest challenges, we are taking decisive action to reduce our environmental impacts and achieve carbon neutrality¹.

The areas in which GI Endoscopy impacts the environment as shown in the ESGE and ESGENA position statement (2022)



The following highlights the areas in
which Boston Scientific can support

Endoscopes

Development
Manufacturing
Reprocessing
Waste disposal

Infrastructure

Building
Lighting, cooling and heating
Electricity and gas
Water and food
Beds, blankets and clothes

Endoscopy Accessories

Development
Manufacturing
Reprocessing
Waste disposal

Travel Needs

Patients
Healthcare workers
Equipment
Industry

**Endoscopy
environmental
impact**

Education and Research

Conference and courses
Representative models and simulators
Research studies
Journals
Social media

Miscellaneous Waste

Personal protective equipment
Packaging
Single-use scrub suits
Biological waste

Administration

Computers and electronic devices
Software
Letters and reminders
Data storage
Endoscopy paperwork

Medication

Laxatives
Sedatives
Antibiotics
Analgesics
Saline
Ancillary supplies

A decorative icon consisting of three overlapping arrows pointing to the right, colored in shades of purple, blue, and cyan, is positioned to the left of the main text.

According to the ESGE and ESGENA position statement¹, GI Endoscopy should become a net-zero greenhouse gas emissions practice by 2050

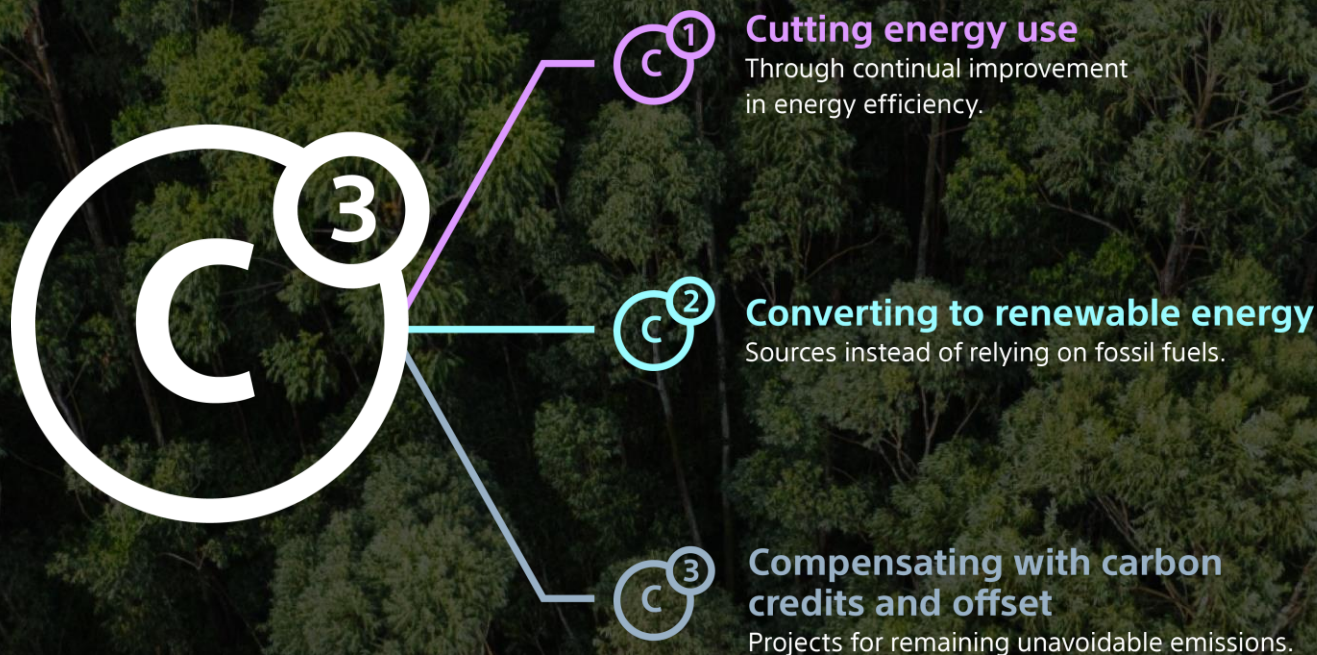
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- A purple arrow icon pointing to the right is positioned to the left of the list item.
- Boston Scientific has committed to net-zero greenhouse gas emissions by 2050, approved under the Science Based Targets Initiative (SBTi) net-zero standard.

Click the button below to learn more

[Our path to net-zero >](#)

In 2017 we launched our C³ strategy

A central component of the company's carbon neutrality approach is our C³ energy strategy. Global and site teams collaborate across Boston Scientific to meet our objectives:





Cutting energy use

To ensure we're investing in energy efficiency at all sites and developing new construction that meets the highest climate standards, we adhere to the Leadership in Energy and Environmental Design (LEED) framework and the International Organisation for Standardisation (ISO) 50001:2018 energy management standard.



↓ 20%

Since 2017, Boston Scientific has decreased energy intensity globally by 20%¹.



1. Energy Intensity is measured by the quantity of energy required per unit output or activity so that using less energy to produce a product reduces the intensity.



Converting to renewable energy¹



76%

of electricity consumed is generated from renewable sources.

- Medical devices are dispatched to hospitals in EMEA and around the world from our key distribution centre at Kerkrade, the Netherlands.
- All electrical power is sourced from wind farms and new on-site solar and we are transitioning from fossil fuel to electricity generated heat using heat pumps.
- We are proud to be recognised as leaders in sustainable logistics since 2018 by Lean & Green, one of Europe's leading programmes in this area.



1. Purchased electricity matched with electricity from renewable sources, inclusive of all manufacturing and key distribution sites only.



The following are a few specific examples of how Boston Scientific is supporting the sector's ambition to tackle climate change



Cholangiography as an outpatient procedure can help reduce the environmental impact associated with overnight hospital stays

- Approximately **20%** of ERCP procedures are repeated within 1 year¹.
- ERCPs represent **2.6%** of the GI Endoscopy workload¹.



The SpyGlass™ DS Cholangioscope impact on greenhouse gas (GHG)

As a result of reduced hospital readmissions

Without SpyGlass DS:



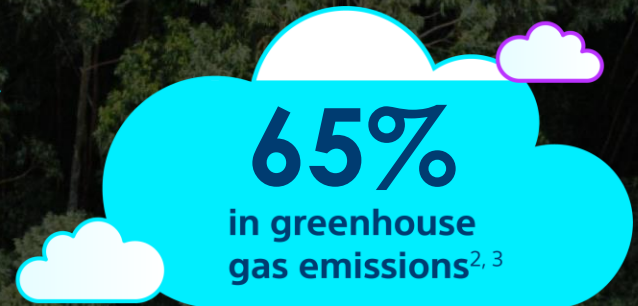
30 kg¹

With SpyGlass DS:



6.4 kg¹

This equates to a reduction of:



1. Boston Scientific. Data on File. SpyGlass DS sustainable journey. June 2022.

2. Sustainable Care Pathways Guidance: Inpatient bed day module published 2015, Surgical Procedure Module Published 2015 Sustainable Care Pathways Guidance – Sustainable Healthcare Coalition: (<https://shcoalition.org/sustainable-care-pathways-guidance/>).

3. Sustainable Care Pathways Guidance: Patient travel module published 2015, Surgical Procedure Module Published 2015 Sustainable Care Pathways Guidance – Sustainable Healthcare Coalition: (<https://shcoalition.org/sustainable-care-pathways-guidance/>).



Virtual training and online educational modalities can reduce the environmental impact of GI Endoscopy, as a result of less people travelling



Personal Development Programs (PDPs):

Nurse focused interactive training sessions delivered online covering anatomy, disease states, procedure and product knowledge.



ePreceptor

Hospitals across EMEA have technology to broadcast live endoscopy cases to viewers worldwide.



Smart Glasses

Remote visual connections between a physician performing a procedure and another at a separate location, allowing on-demand training and support.



EDUCARE

Our platform for on-demand learning modules, clinical overviews and case studies.



According to the ESGE and ESGENA position statement¹, single use endoscopes should be reserved for highly selected patients, considered on a case-by-case basis

- ▶ Segmenting ERCP patients by infection risk allows endoscopists to make more informed decisions about the risk benefit ratio of single-use duodenoscope technology.
- ▶ We're reducing the risk of infection for the most vulnerable patients with the EXALT™ Model D Single-use Duodenoscope.





We continue to fund research into green and sustainable GI Endoscopy

We are proud to collaborate with experts* and industry leaders in supporting a UK study which will provide an accurate quantification of the environmental impact of endoscopy and highlight parts of the process which contribute most to the negative impacts.

*Dr. Baddeley, Prof. Hayee and Prof. Thomas-Gibson





Addressing the environmental impact of single-use GI endoscopic devices

In Europe, we initiated a market search for waste management partners to find single use scope recycling solutions for our customers in 2019.

As a result, we initiated a recycling pilot project in Germany to help reduce incineration and landfill volumes in Europe for our customers.

Globally, we removed 170+ metric tons of packaging from our waste stream and 1,000 metric tons of recycled content were used in packaging in 2022.

Boston Scientific has a zero-waste goal of diverting a minimum of 90% of our own waste from landfills and incineration by 2030¹.

- ▶ We collaborate with industry peers in the Healthcare Plastics Recycling Council (HPRC) to reduce waste, limit emissions and maximise opportunities to recycle.
- ▶ Our packaging and labelling practices include optimising design, reducing waste and limiting emissions from shipping. Our global teams implemented more than 50 packaging improvement projects in 2022.
- ▶ Our teams in the United States offer systems for recycling devices and converting product waste to energy. In 2022, participating customers recycled 97% of EXALT™ Model D devices.



In summary, a lot of work has already been done. However, there is still a lot more to do to minimise the environmental impact of GI Endoscopy

Our commitment to improving patient health will continue to come with a responsibility to protect the planet we all share.

